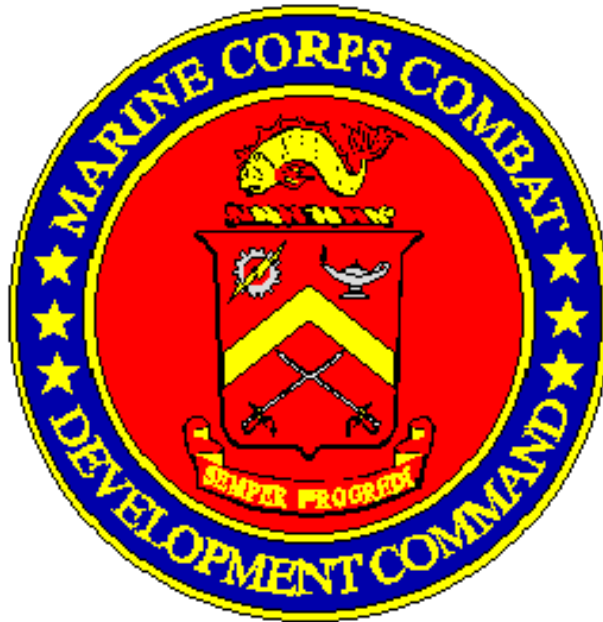


CJCSI 3170 Revision Joint Capabilities Integration and Development System (JCIDS)



***Mr. Kevin McConnell
Ground Combat Element
Materiel Requirements
Expeditionary Force
Development Center***

Purpose

- **Update to the CJCSI 3170 Requirements Generation Process**
- **CJCSI 3170.01C Joint Capabilities Integration and Development System (JCIDS)**

“Provide more effective and integrated capabilities to the Commanders as they execute military operations”

SECDEF “Snowflake”

**In 19 Mar 02 Memo to the VJCS,
SECDEF stated:**

*“As Chairman of the JROC please think
through
what we all need to do , individually or
collectively,
to **get the requirements system fixed.**”*

*“It is pretty clear it is broken, and it is so
powerful
and inexorable that it invariably continues to
require*

History

- Chairman's guidance to the JROC, September 2002
 - The JROC's role in supporting the transformation effort is crucial
 - Ensure systems are "born joint"
- DPG Study Recommendations to the SECDEF, December 2002
 - Develop a revised methodology for identifying necessary joint military capabilities and developing those capabilities through an evolutionary acquisition process.
- Transformation Planning Guidance, April 2003

Just a Thought



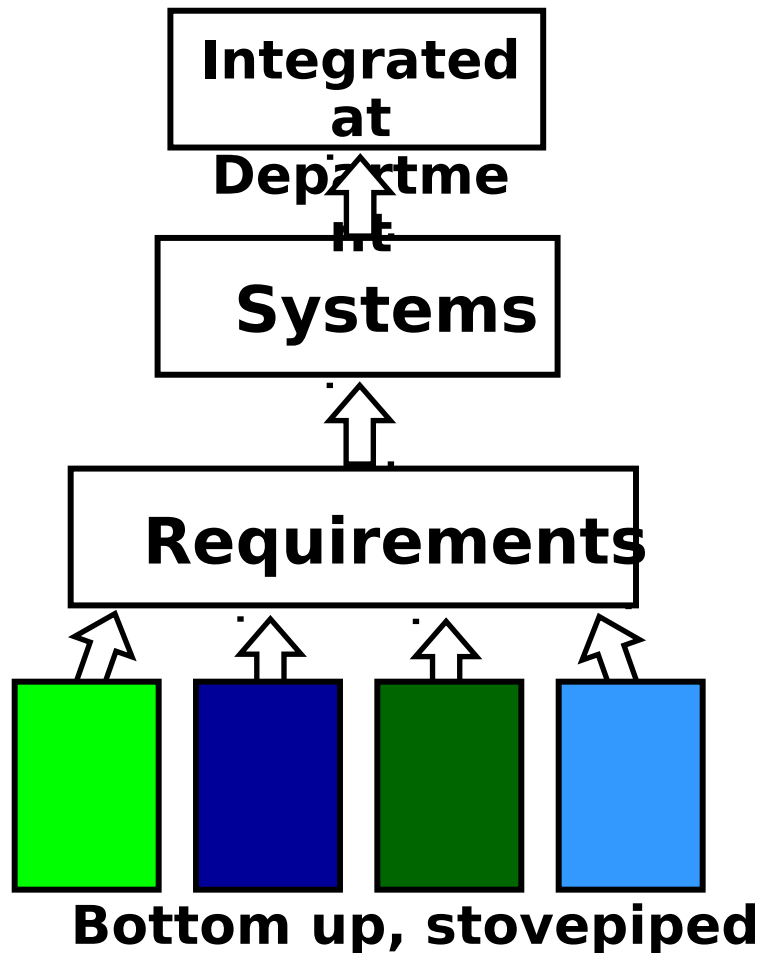
Previous Requirements and Acquisition Process

Frequently produced stove piped system solutions

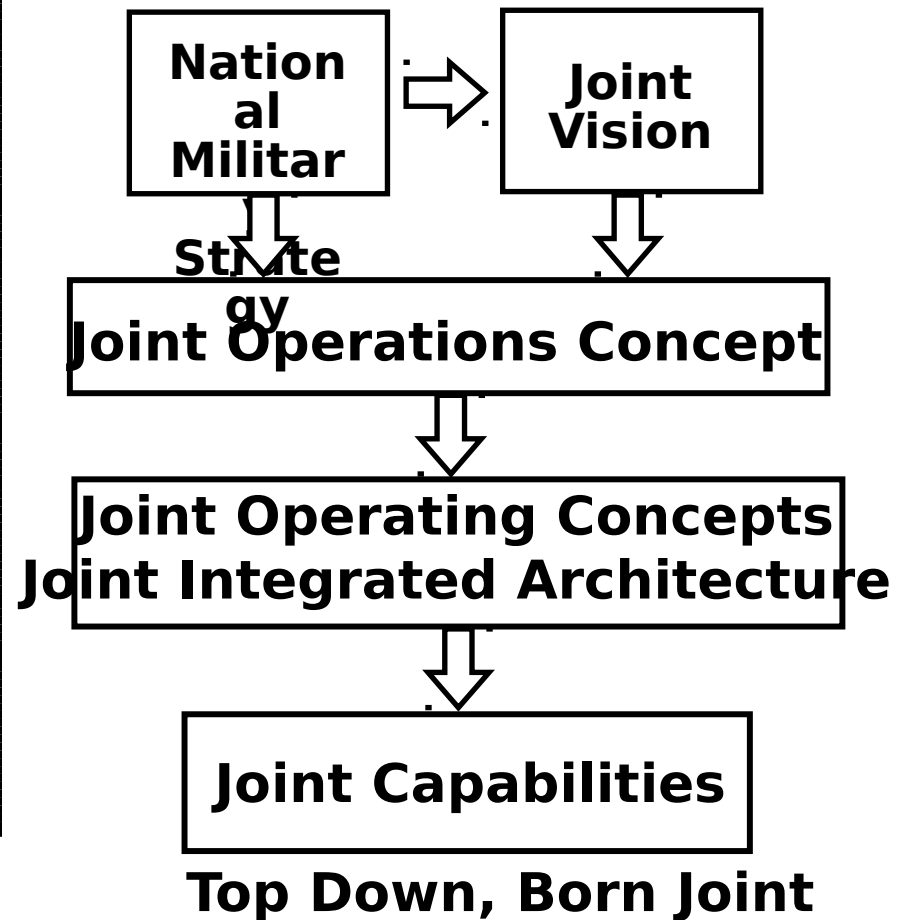
- **Requirements were Service rather than Joint focused**
- **Lacked construct for objective analysis**
- **Systems not necessarily integrated**
- **Duplication existed, particularly in smaller programs**
- **Evolutionary acquisition not well institutionalized**
- **Joint warfighting needs not prioritized**

The New Requirements Process

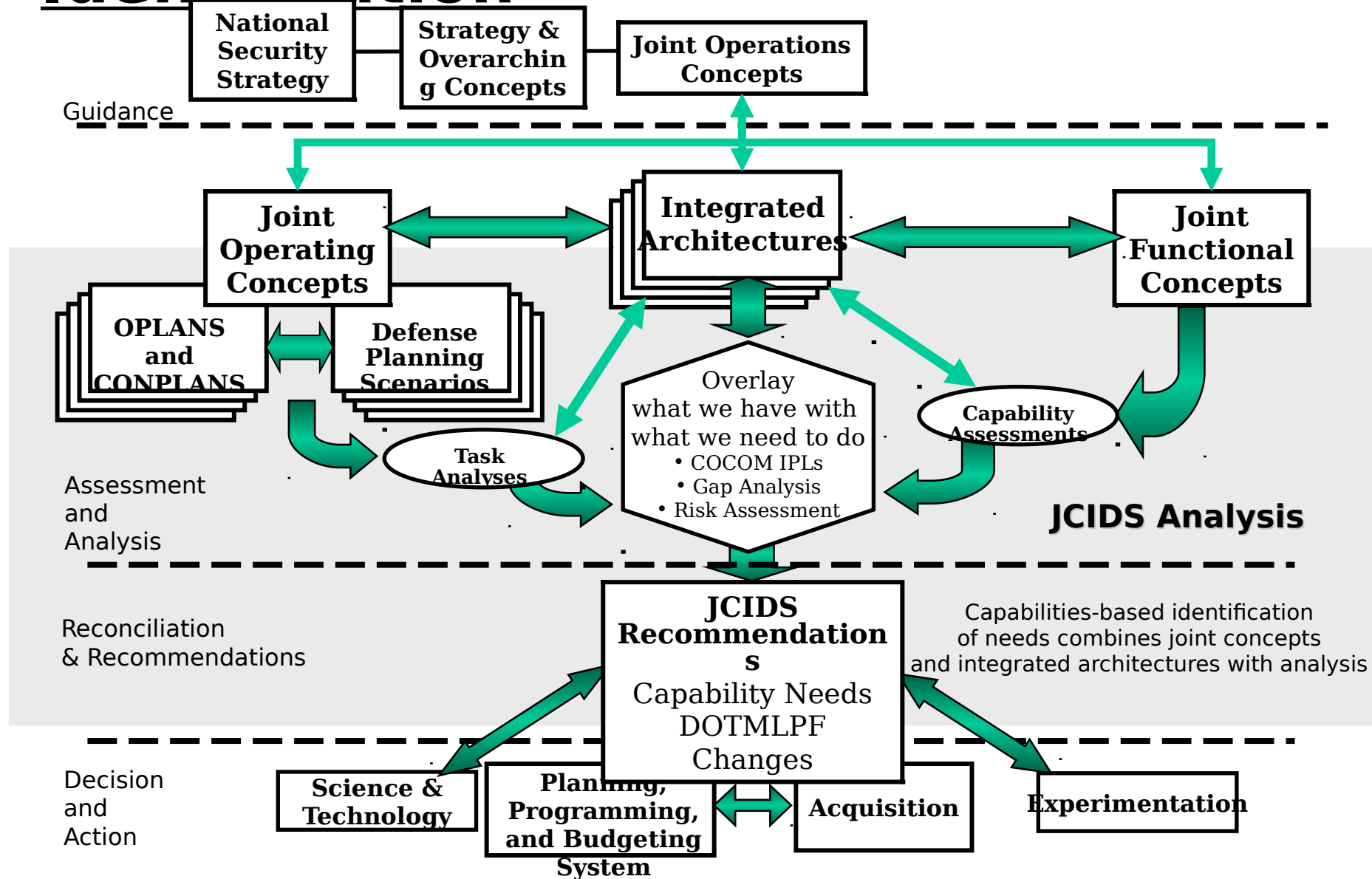
Requirements Generation System CJCSI 3170.01B



Joint Capabilities Integration and Development System CJCSI 3170.01C



Capabilities Needs Identification



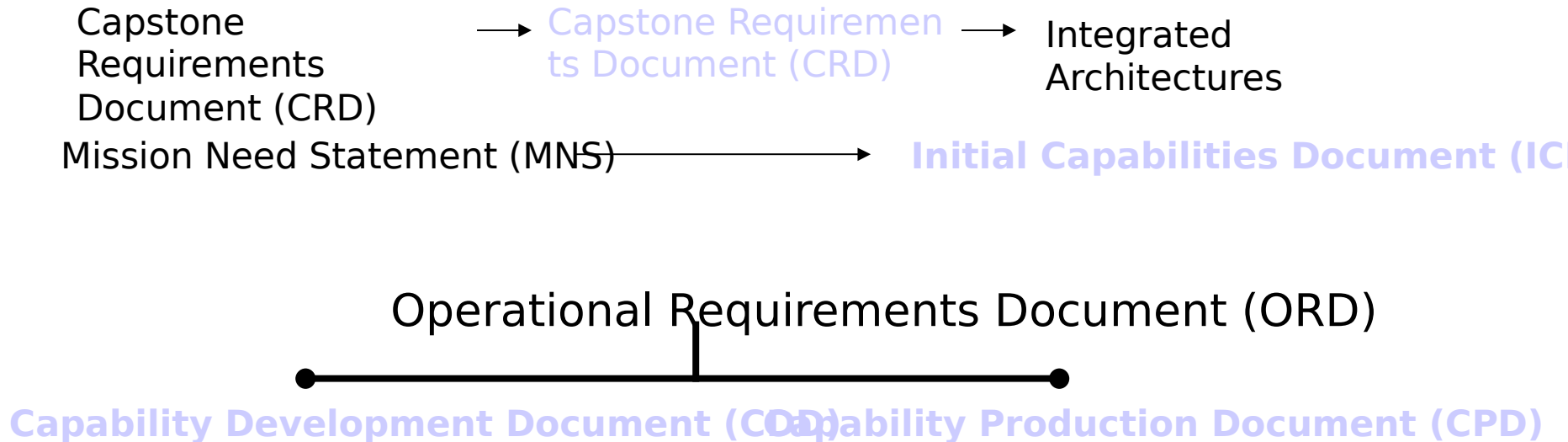
JCIDS Implementation

APPLIES to ALL ACAT LEVELS

CJCS■ 3170.01C - Establishes policy and procedures.

CJCS■ 3170.01 – Guideline and procedures for developing and staffing JCIDS documents.

JCIDS Implementation



Joint Staff Knowledge Management / Decision Support (KM/DS) Tool
<https://siprweb1.js.smil/pls/jrcz>

JCIDS Implementation

- **Statement of Need**

- Identify basic performance attributes
- Commercial or Nondevelopmental Items
- Non ACAT Level

- **Operational & Organizational Concept Document**

- Adopt another Service's capability document
- Identify USMC-specific capabilities or constraints

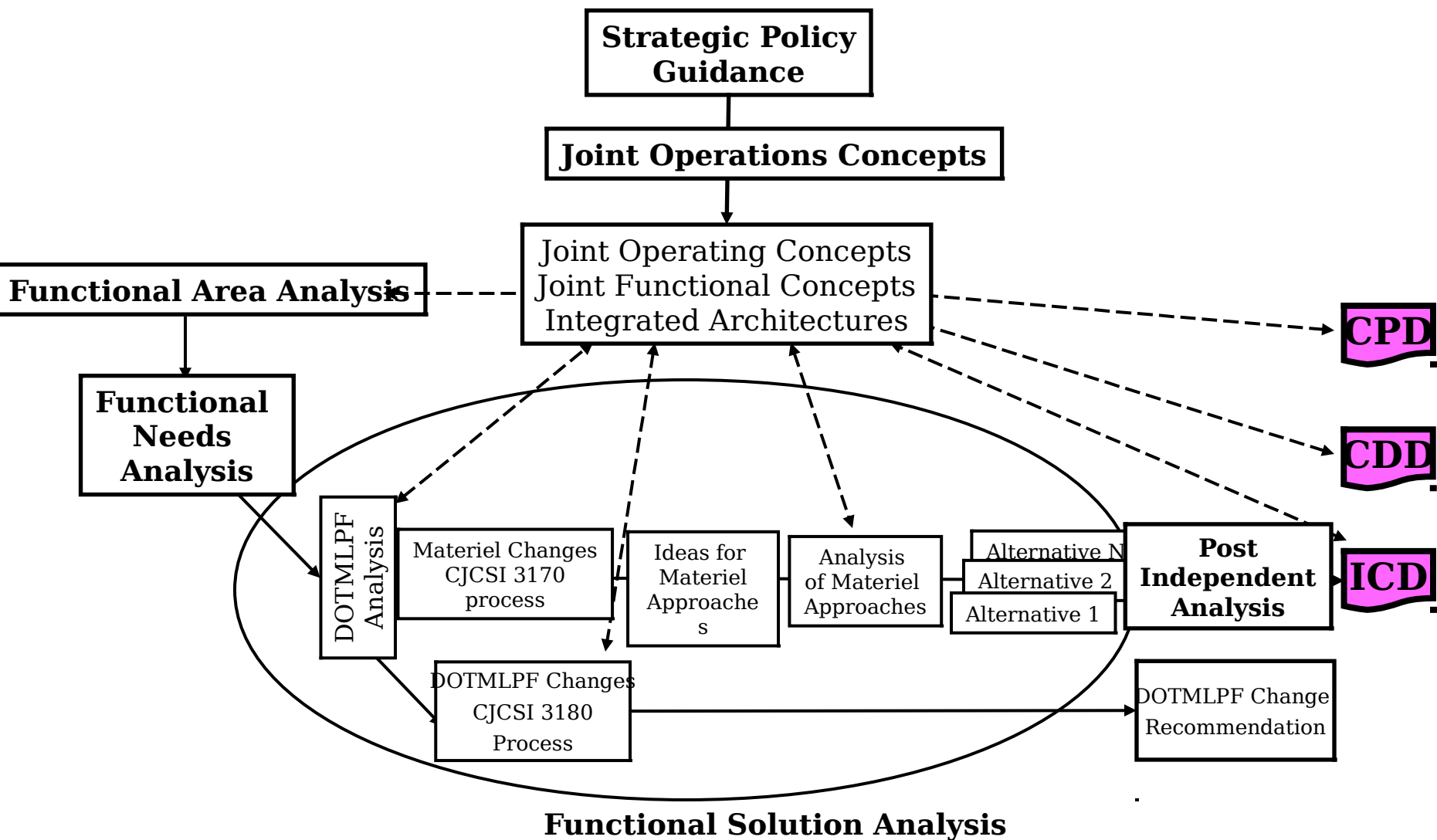
What it means now

Approved requirements documents (MNS, CRD, ORD)
remain valid

Except

- JROC approved CRDs will remain valid until absorbed into joint architecture.
- Only CRDs that are specifically JROC directed will be approved.
- MNSs that are currently in staffing will continue. No new MNSs.
- Post MS A programs not required to update the MNS with an ICD.
- No MNS greater than 2 years old will be used to support a MS A decision.
- ORDs were accepted for staffing until 24 December 2003.
- Currently approved ORDs may be used to support a MS B or MS C decision until 24 June 2005.

JCIDS Analysis

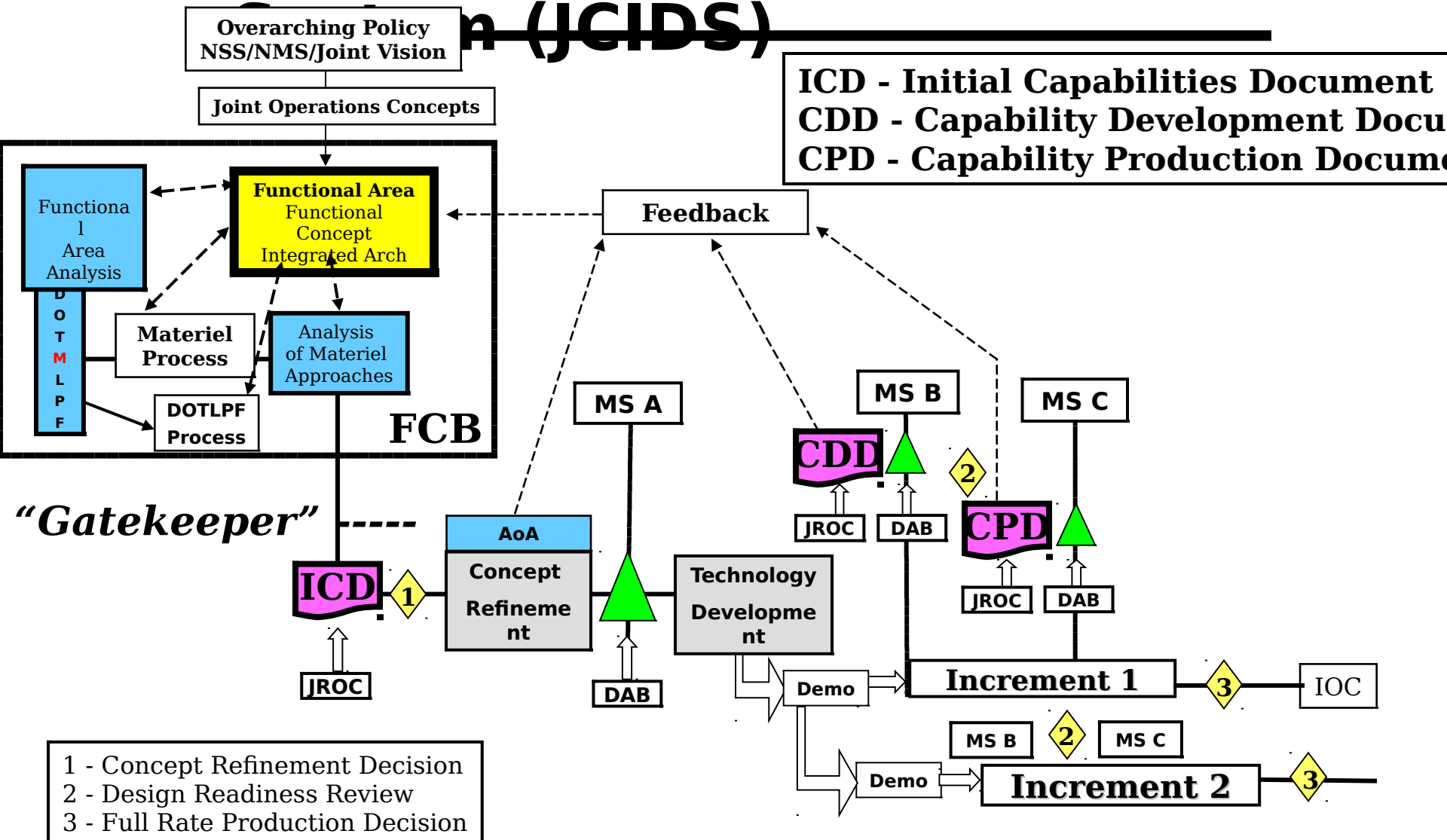


Getting to the ICD JCIDS Analysis

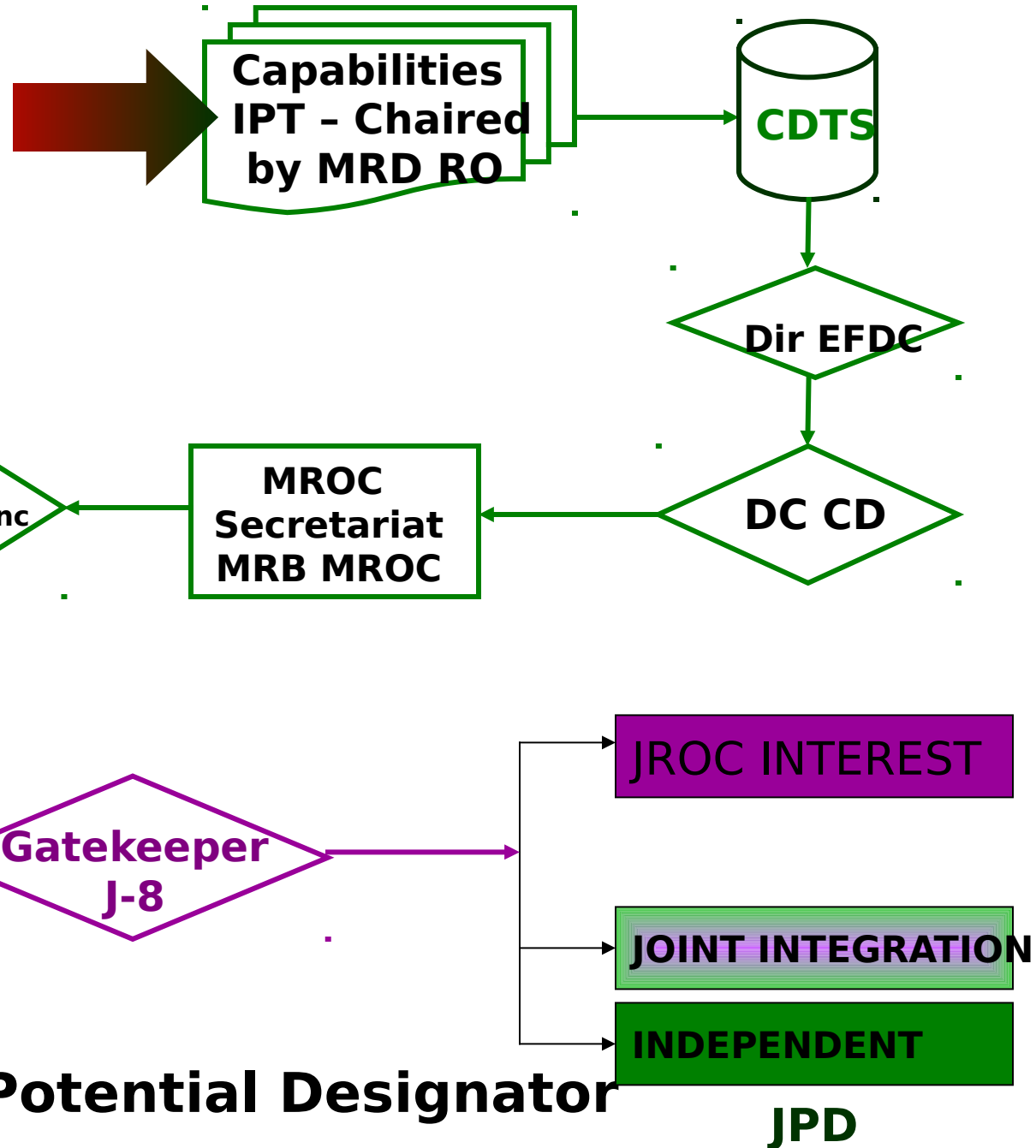
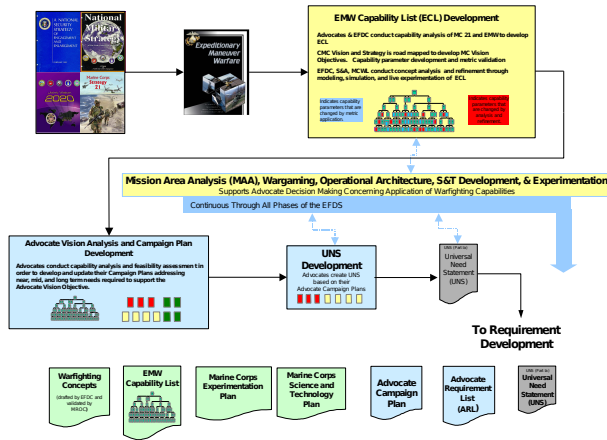
- **Functional Area Analysis (FAA)**
 - Identify operational task, conditions, and standard needed to accomplish military objectives
 - **Result:** Tasks to be accomplished
- **Functional Needs Analysis (FNA)**
 - Assess ability of current and programmed capabilities to accomplish the tasks
 - **Result:** List of capability gaps (ECL)
- **Functional Solutions Analysis (FSA)**
 - Operational based assessment of doctrine, organization, training, materiel, leadership/education, personnel, and facilities (DOTMLPF) approaches to solving capability gaps
 - **Result:** Potential integrated DOTMLPF approaches to capability gaps (DWG)
- **Post Independent Analysis**
 - Independent analysis of approaches to determine best fit (SID/SPD)
 - **Result:** Initial Capabilities Document



Joint Capabilities Integration Development Architecture (JCIDS)



PHASE I - FORCE CAPABILITY DEVELOPMENT



Path to the Joint Potential Designator

JPD



JCIDS Gatekeeper

Vice Director J8

Perform initial review of all JCIDS proposals

- **Support provided by JFCOM, J6, J7, J8, FCBs**

The Gatekeeper will determine:

- **Joint Potential Designator**
- **Lead and supporting Functional Capabilities Boards (FCB)**
- **J-8 Capabilities and Acquisition Division Lead**

Joint Potential Designator

JROC INTEREST

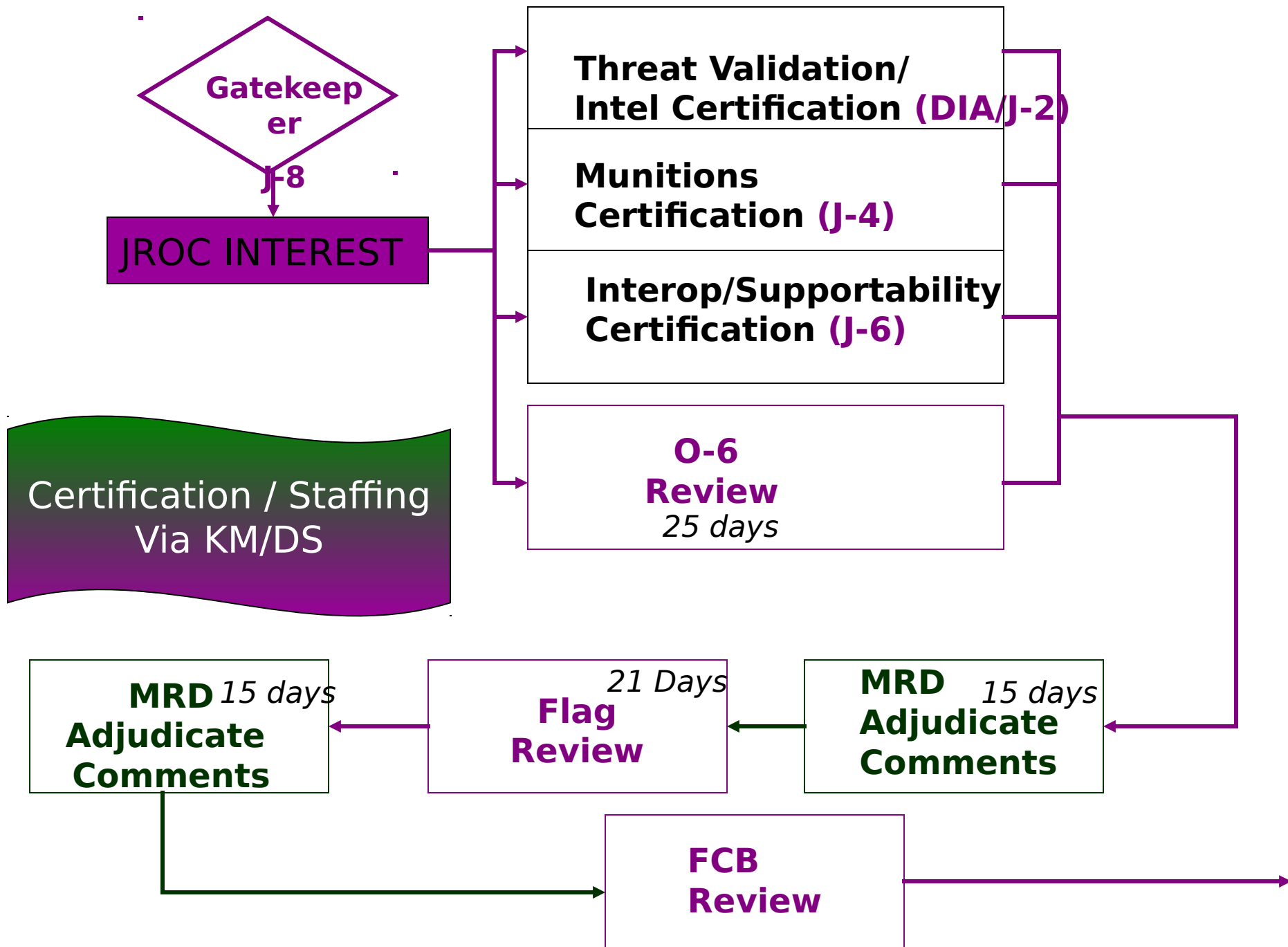
- **ACAT I / IA Programs**
- **ACAT II and below programs where the capabilities have a significant impact on joint warfighting**
- **Intelligence capabilities that support DOD/National intelligence requirements**
- **All CRDs and DOTMLPF change recommendations will be designated as JROC Interest.**

JOINT INTEGRATION

- **Any ACAT II and below program without significant joint impact**
- **Requires intelligence, munitions or interoperability certification**
- **Sponsor validates and approves**

INDEPENDENT

- **Any program not meeting the above criteria**
- **Sponsor validates and approves**



Certification / Staffing
Via KM/DS

JROC INTEREST

FCB
Review

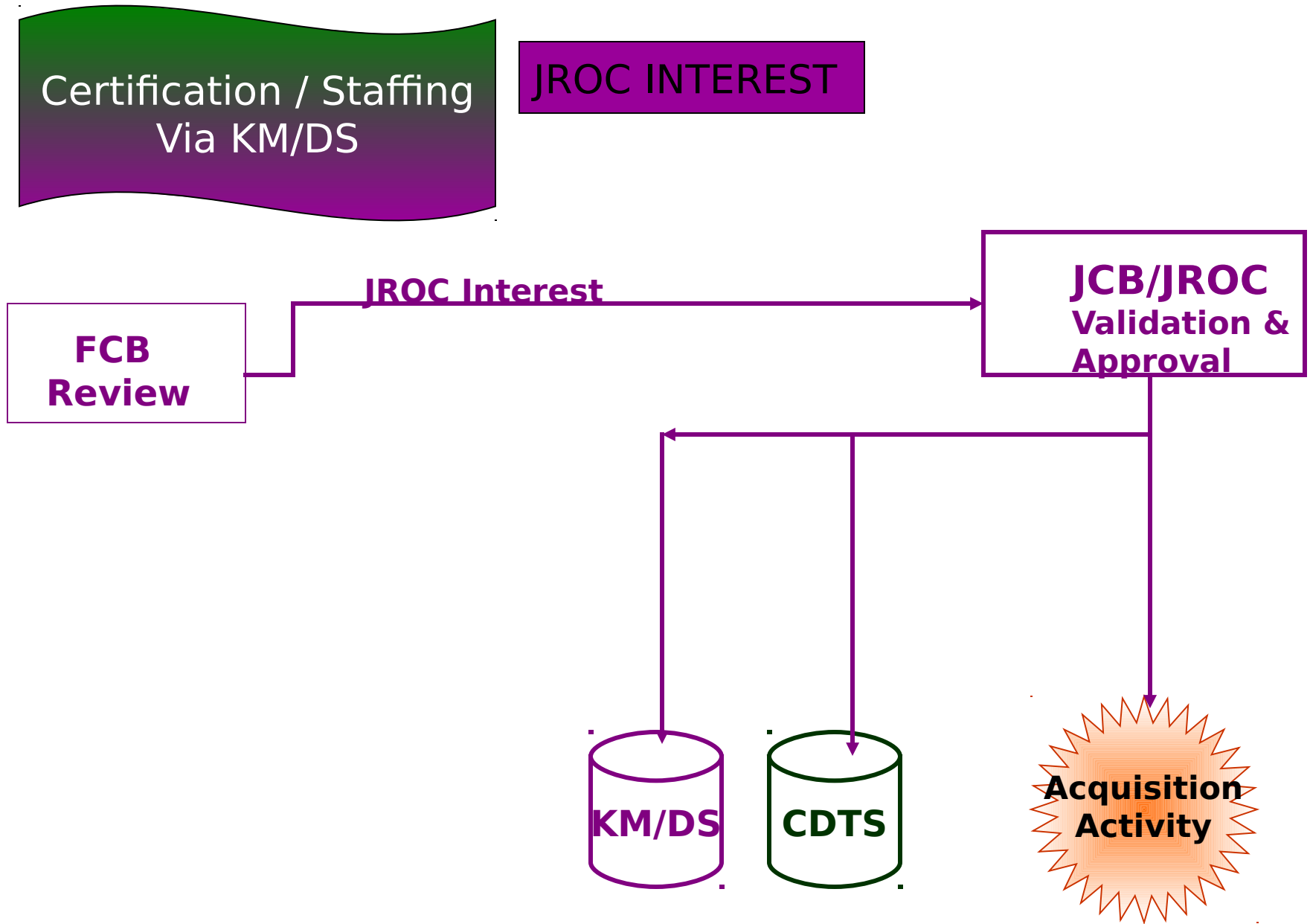
JROC Interest

JCB/JROC
Validation &
Approval

KM/DS

CDTS

Acquisition
Activity



Certification / Staffing Via KM/DS

JOINT INTEGRATION

**Gatekeeper
J8**

INDEPENDENT

**Threat Validation/
Intel Certification (DIA/J-2)**

**Munitions
Certification (J-4)**

**Interop/Supportability
Certification (J-6)**

**MRD
DC CD
Validation**

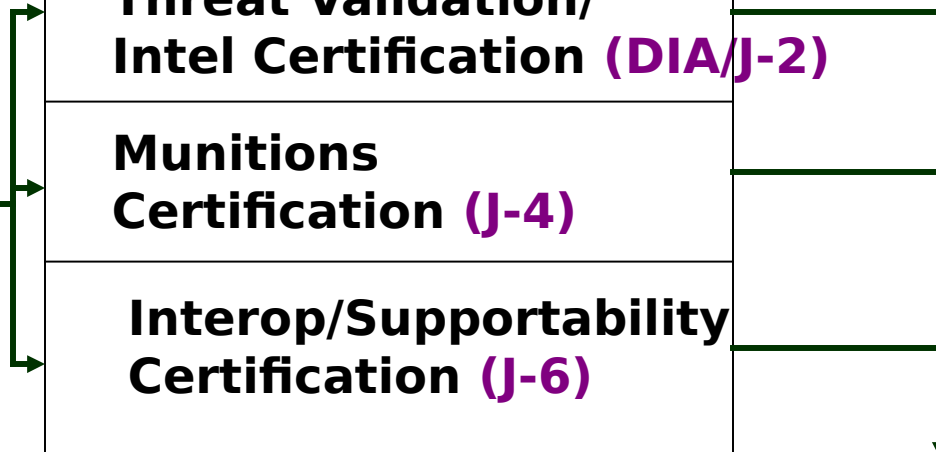
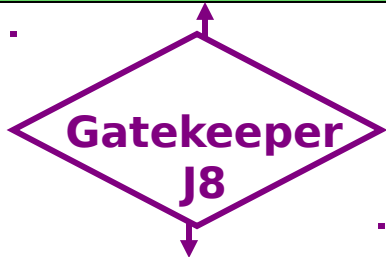
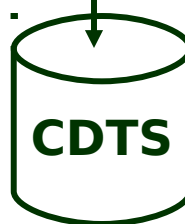
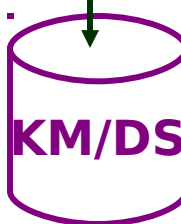
**ACMC
For
Approval**

**MRD
Admin Activity**

**Acquisition
Activity**

KM/DS

CDTS



Functional Capabilities Board

- **Chartered by the JROC**
- **Support the JROC in identifying joint military requirements, considering alternatives, and assigning priority among acquisition programs in JROC assigned functional areas to meet the national security strategy.**
- **Organize and analyze capability proposals within assigned functional area**
- **Ensure JCIDS documents are consistent with integrated joint force**
- **Ensure new capabilities are conceived and developed in Joint Warfighting Context**
- **Determine gaps, seams and redundancies in the Joint Context and then make programmatic recommendations**

JCIDS FCBs

RDML Murrett
JS J-2

**Battlespace
Awareness**

Portfolio

- All source intel collection
- Environmental data collection
- Predictive analysis
- Knowledge management

Brig Gen Rogers
JFCOM J-8
C2

Portfolio

- Integrated Operational Pictures
- JFC2
- Coal Info Sharing
- Combat ID
- Nat/Strategic C2

RADM Brown
JS J-6
**Net-Centric
Portfolio**
- Net-Centric Environment

Brig Gen Scott
JS J-8
**Force
Application**

Portfolio

- Land, maritime, air & space ops
- Computer Network Opns
- Joint targeting
- Conventional and nuclear atk
- Close and urban combat
- CNA
- Electronic attack
- PSYOPS
- Special ops
- SEAD
- Military deception

RADM Mathis
JS J-8

Protection

Portfolio

- Personnel and infrastructure protection
- Proliferation control
- Homeland security
- Consequence management
- Air and missile Defense

Brig Gen Taylor
JS J-4

**Focused
Logistics**

Portfolio

- Deployment/distribution
- Sustainment
- Medical
- Mobility
- Logistics C2

***Appropriate Milestone Decision Authority will co-chair FCB
(AT&L, USecAF, or NII representative)**

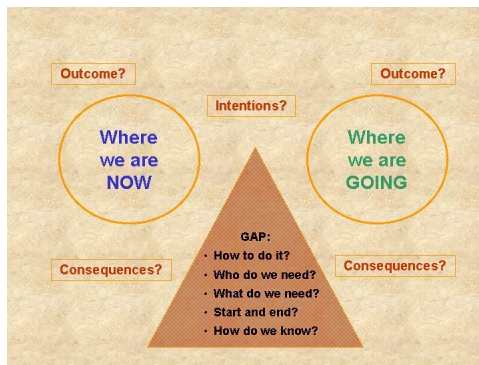
Nominal FCB Membership

Principal Membership (O-6/GS-15 representatives)

- Services
- Combatant Commanders
- USD for Acquisition, Technology, and Logistics
- USD for Intelligence
- ASD for Networks and Information Integration/DoD Chief Information Officer
- USecAF (Space)
- Defense Intelligence Agency
- Director, Program Analysis & Evaluation
- Mission Requirements Board Executive Secretary

Advisory Membership

- FCB leads
- J-6E/I (interoperability advisor)
- J-8 Warfighting Concepts and Architectures Integration Division
- DOD laboratories & industry



Thoughts on the ICD



- A written record of the analysis
- Capability-based
- Makes the case to establish the need for a materiel approach
- Defines the gap in terms of:
 - Functional areas
 - Relevant range of military operations
 - Time
 - Obstacles to over come
 - Key attributes with appropriate measures of effectiveness
- Describes how the recommended approach best satisfies the desired Joint capability
- Supports ACAT I AOA or lesser analysis for ACAT II and below

If it's not joint it probably won't
happen!



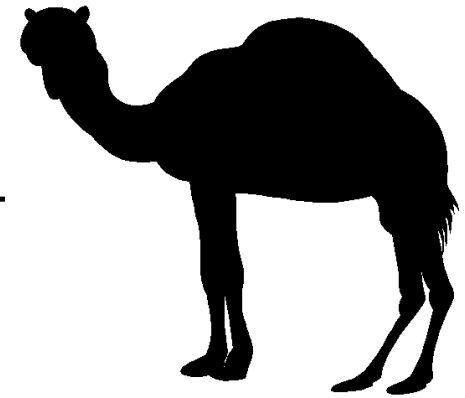
Thoughts on the CDD



- The CDD defines the attributes of one increment of one thing only (i.e. a knife, not a family of knives)
- Standard format
- Keep it simple
- Make it evolutionary if that means we get the capability more quickly
- **The CDD is NOT a wish list—**
 - Attributes shall be rationalized in writing (early/continuous user involvement)
 - Achievable (early/continuous SYSCOM/Industry involvement)
 - Measurable (early/continuous MCOTEA involvement)

Increment - a militarily useful and supportable operational capability that can be effectively developed, produced or acquired, deployed

Thoughts on the CPD



- **The system is what it is by this point**
 - CAIV provides the rationale
 - The attributes will reflect the decisions made at CDR
 - CPD Thresholds $\neq$ CDD Thresholds (CAIV considerations)
 - Lowered KPP threshold requires approval of the validating authority
- Standard format (CJCSI 3170.01C)

Discussion

Bookmark Slides

JCIDS Documents

- **Capstone Requirements Document (CRD)**
 - Developed only at JROC direction
 - Describes overarching thresholds/goals and standards in functional areas
 - Useful for family-of-systems or system-of-systems approaches
 - Eventually will be replaced by integrated architectures



JCIDS Documents (cont'd)

- **Initial Capabilities Document (ICD)**
 - Makes the case for a materiel approach
 - Identifies a capability gap or other deficiency
 - Describes evaluation of DOTMLPF approaches
 - Support Analysis of Alternatives (AoA), Concept Refinement and **Milestone A**
 - Not updated once approved
 - May support multiple CDDs and CPDs



JCIDS Documents (cont'd)

- **Capability Development Document (CDD)**
 - Identifies operational performance attributes of proposed system
 - System specific, applies to single increment (in an evolutionary program)
 - Results from Technology Development and supports
- **Milestone B**
 - Updated or rewritten for subsequent increments



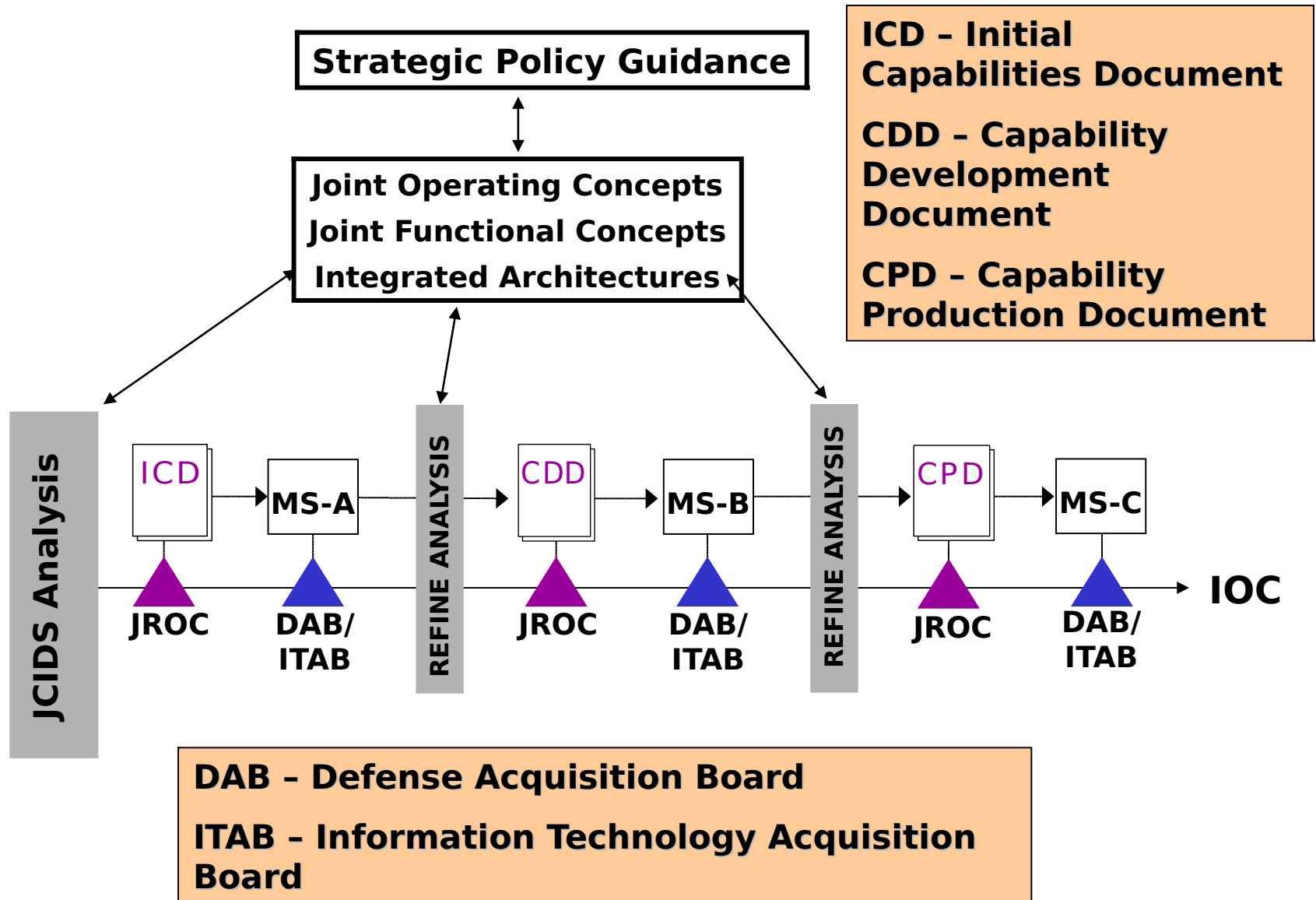
JCIDS Documents (cont'd)

- **Capability Production Document (CPD)**

- Identifies production attributes for a single increment of a program
- Prepared during System Development and Demonstration
- **Finalized after the program's Design Readiness Review**
- Prevents post CDR requirements growth
- Rewritten for each increment in an evolutionary program
- Required for **MS C decision**.

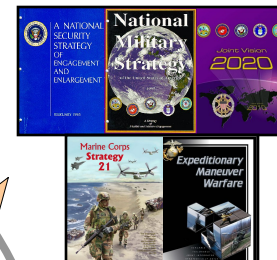
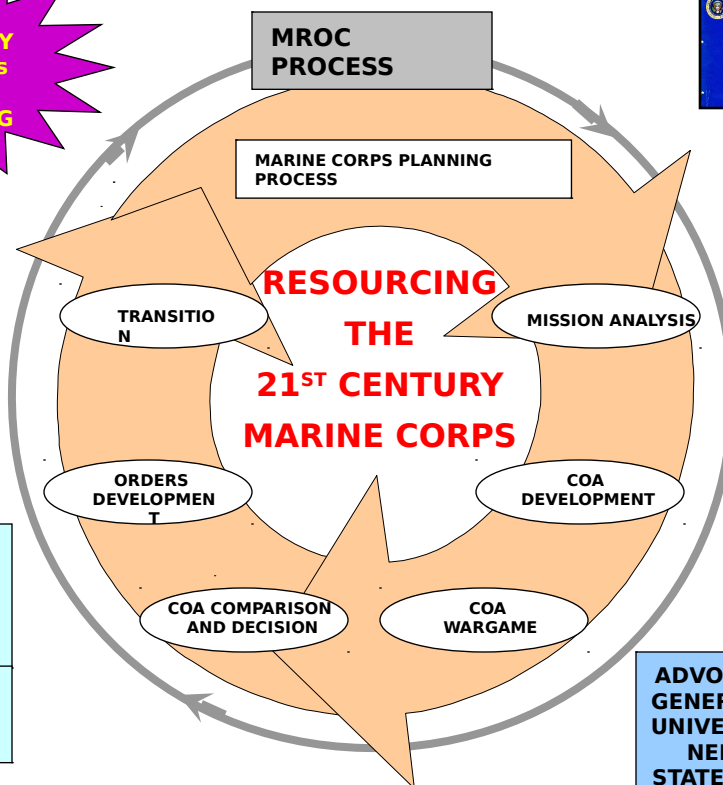
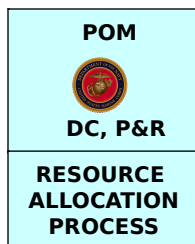
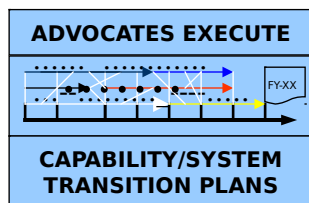
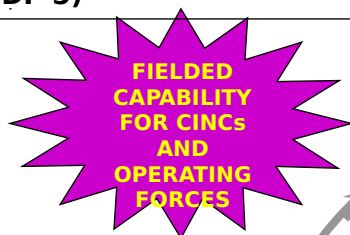


JCIDS Ties to the DOD 5000 Series



MARINE CORPS EXPEDITIONARY FORCE DEVELOPMENT SYSTEM (EFDS)

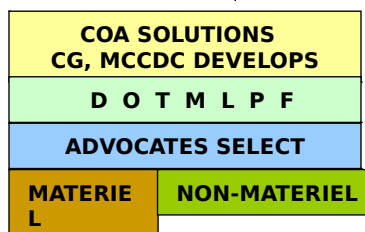
Planning: The art and science of envisioning a desired future and laying out effective ways of bringing it about. (MCDP 5)



ADVOCATE MISSION ANALYSIS

ADVOCATE DETERMINES CAPABILITIES & REQUIREMENTS

ADVOCATE GENERATED UNIVERSAL NEED STATEMENT (UNS)



MAGTF ADVOCATES

CE	-	CG, MCCDC
GCE	-	DC, PP&O
ACE	-	DC, AVIATION
CSSE	-	DC, I&L
SE	-	DC, I&L

D DOCTRINE
O ORGANIZATIONS
T TRAINING
M MATERIEL
L LEADERSHIP & EDUCATION
P PERSONNEL
F FACILITIES

PHASE I - FORCE CAPABILITY DEVELOPMENT

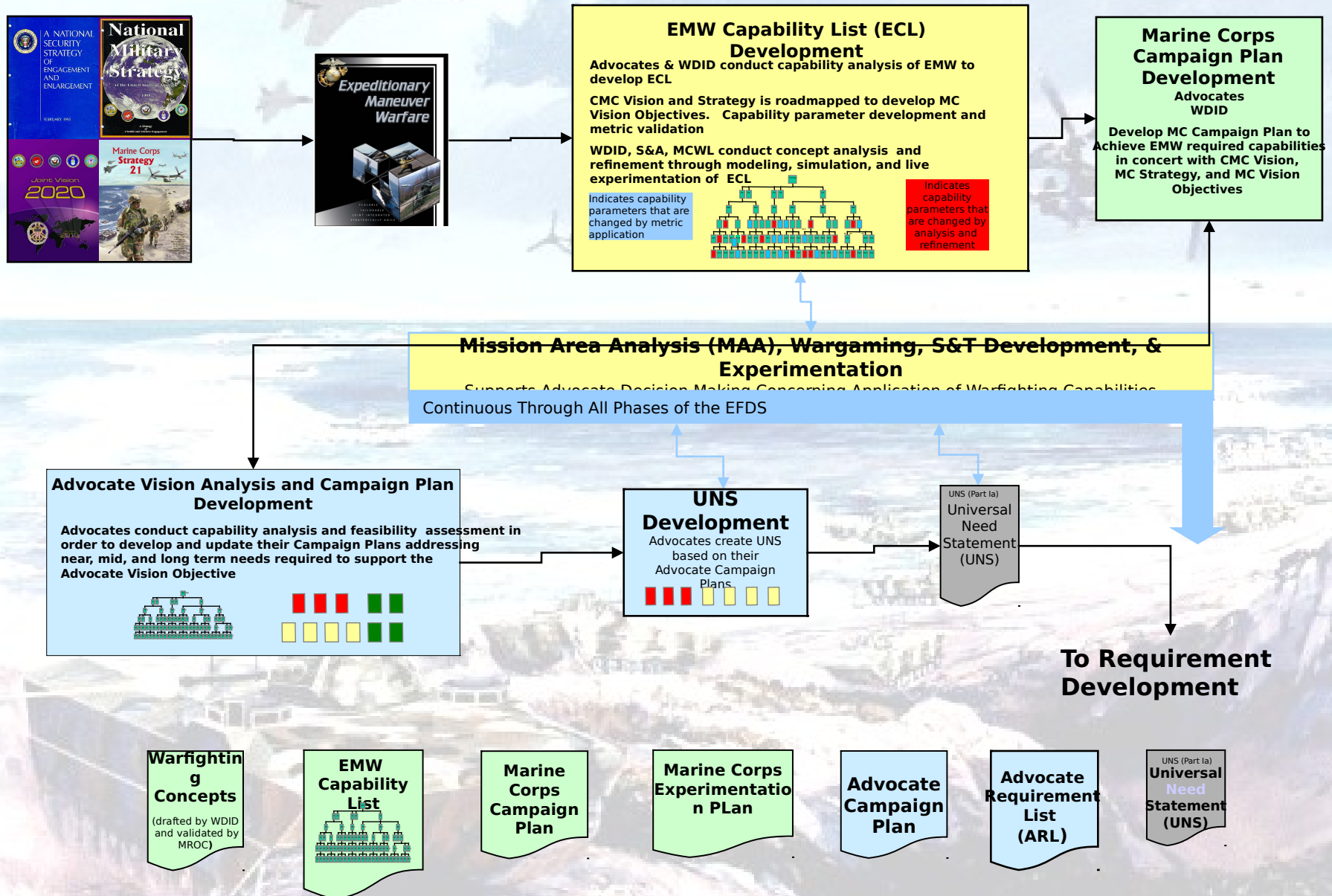
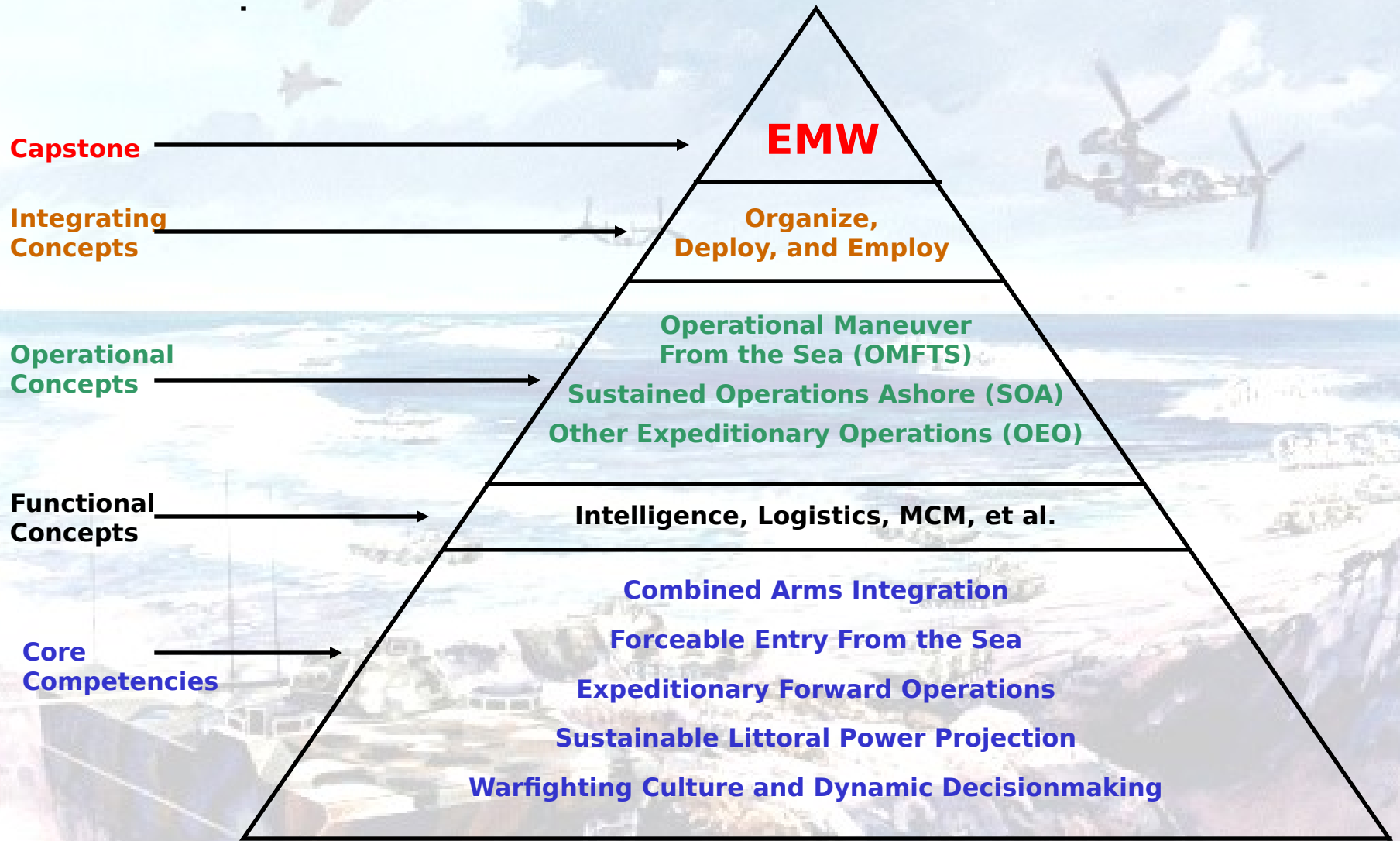
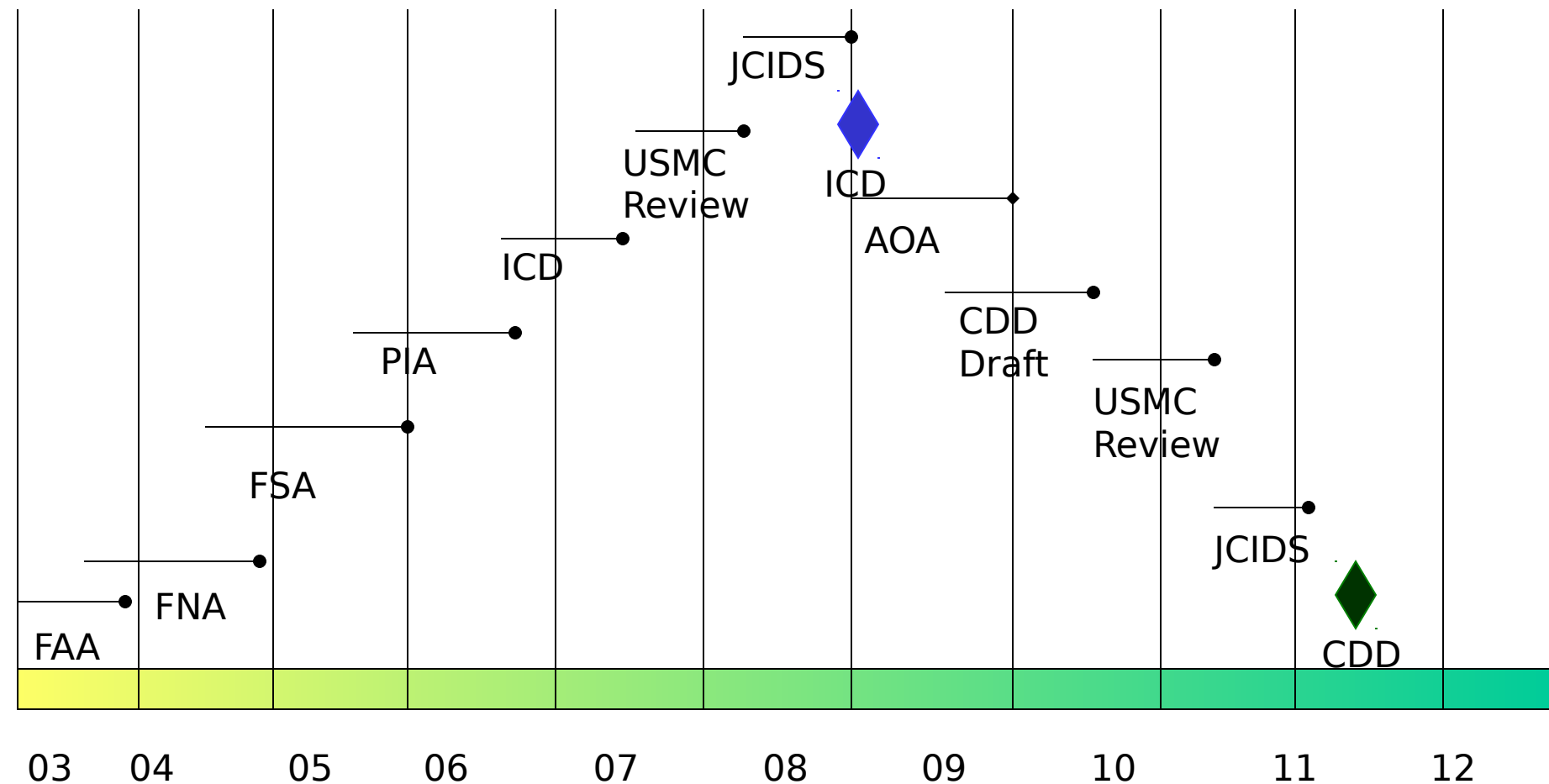
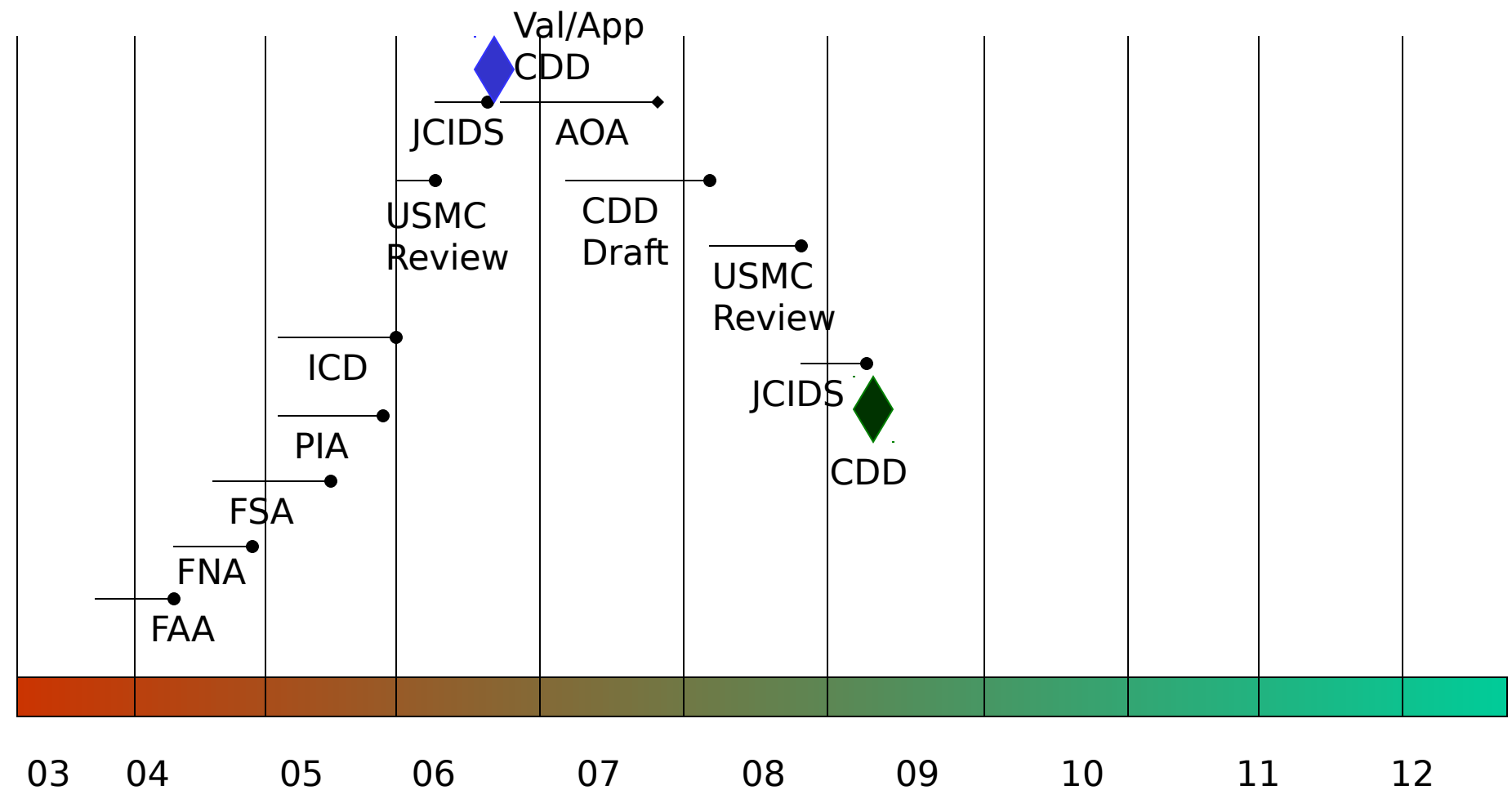


Figure 1-1 Force Development





13 Timeline in Years for JCIDS development assuming current MCCDC resource level.



13 Timeline in Years for JCIDS development assuming \$29M (I.e. MEFFV) over the FY